PINEDA ME08 Activity 06

```
D:\UserFolder\Documents\20-21-2ndSem\CoE 197S\Repositories\docker-training>docker network ls
NETWORK ID      NAME        DRIVER      SCOPE
6bd24fbb997a    bridge      bridge      local
a1668d74be91    host        host        local
6fc6da2d12ef    none        null        local
```

```
D:\UserFolder\Documents\20-21-2ndSem\CoE 197S\Repositories\docker-training>docker network inspect bridge
[
    {
        "Name": "bridge",
        "Id": "6bd24fbb997aca217a9761ef3e48c1a78951bfc9b6b1724fd6e5e88fbcd51cbf",
        "Created": "2021-06-12T13:07:15.2308529Z",
        "Scope": "local",
        "Driver": "bridge",
        "EnableIPv6": false,
        "IPAM": {
            "Driver": "default",
            "Options": null,
            "Config": [
                {
                    "Subnet": "172.17.0.0/16"
                }
            ]
        },
        "Internal": false,
        "Attachable": false,
        "Ingress": false,
        "ConfigFrom": {
            "Network": ""
        },
        "ConfigOnly": false,
        "Containers": {},
        "Options": {
            "com.docker.network.bridge.default_bridge": "true",
            "com.docker.network.bridge.enable_icc": "true",
            "com.docker.network.bridge.enable_ip_masquerade": "true",
            "com.docker.network.bridge.host_binding_ipv4": "0.0.0.0",
            "com.docker.network.bridge.name": "docker0",
            "com.docker.network.driver.mtu": "1500"
        },
        "Labels": {}
    }
]
```

PINEDA ME08 Activity 06

```
D:\UserFolder\Documents\20-21-2ndSem\CoE 197S\Repositories\docker-training>docker run --rm -d --name dummy royeap197s/ping:1.0
b68884703738707154622778a03232d668d4cf9330f35418d6d6f65536257c023

D:\UserFolder\Documents\20-21-2ndSem\CoE 197S\Repositories\docker-training>docker network inspect bridge
[
    {
        "Name": "bridge",
        "Id": "6bd24fbb997aca217a9761ef3e48c1a78951bfc9b6b1724fd6e5e88fbcd51cbf",
        "Created": "2021-06-12T13:07:15.2308529Z",
        "Scope": "local",
        "Driver": "bridge",
        "EnableIPv6": false,
        "IPAM": {
            "Driver": "default",
            "Options": null,
            "Config": [
                {
                    "Subnet": "172.17.0.0/16"
                }
            ]
        },
        "Internal": false,
        "Attachable": false,
        "Ingress": false,
        "ConfigFrom": {
            "Network": ""
        },
        "ConfigOnly": false,
        "Containers": {
            "b68884703738707154622778a03232d668d4cf9330f35418d6d6f65536257c023": {
                "Name": "dummy",
                "EndpointID": "7c33513d55e31b957587995690de1936511533fcf0fe7466126e6f74b45c1c2f",
                "MacAddress": "02:42:ac:11:00:02",
                "IPv4Address": "172.17.0.2/16",
                "IPv6Address": ""
            }
        },
        "Options": {
            "com.docker.network.bridge.default_bridge": "true",
            "com.docker.network.bridge.enable_icc": "true",
            "com.docker.network.bridge.enable_ip_masquerade": "true",
            "com.docker.network.bridge.host_binding_ipv4": "0.0.0.0",
            "com.docker.network.bridge.name": "docker0",
            "com.docker.network.driver.mtu": "1500"
        },
        "Labels": {}
    }
]
```

```
D:\UserFolder\Documents\20-21-2ndSem\CoE 197S\Repositories\docker-training>docker run --rm -d -e PING_TARGET=172.17.0.2 --name pinger royeap197s/ping:1.0
fbf1906514e245f3e27cd40f086c925263700668b569673e079272e9b8a3ce1e

D:\UserFolder\Documents\20-21-2ndSem\CoE 197S\Repositories\docker-training>docker ps
CONTAINER ID   IMAGE                COMMAND                 CREATED              STATUS              PORTS       NAMES
fbf1906514e2   royeap197s/ping:1.0  "sh -c 'ping $PING_T…"  8 seconds ago        Up 7 seconds                    pinger
b68884703738   royeap197s/ping:1.0  "sh -c 'ping $PING_T…"  About a minute ago   Up About a minute               dummy

D:\UserFolder\Documents\20-21-2ndSem\CoE 197S\Repositories\docker-training>docker logs pinger
PING 172.17.0.2 (172.17.0.2) 56(84) bytes of data.
64 bytes from 172.17.0.2: icmp_seq=1 ttl=64 time=0.107 ms
64 bytes from 172.17.0.2: icmp_seq=2 ttl=64 time=0.040 ms
64 bytes from 172.17.0.2: icmp_seq=3 ttl=64 time=0.042 ms
64 bytes from 172.17.0.2: icmp_seq=4 ttl=64 time=0.046 ms
64 bytes from 172.17.0.2: icmp_seq=5 ttl=64 time=0.051 ms
64 bytes from 172.17.0.2: icmp_seq=6 ttl=64 time=0.103 ms
64 bytes from 172.17.0.2: icmp_seq=7 ttl=64 time=0.099 ms
64 bytes from 172.17.0.2: icmp_seq=8 ttl=64 time=0.059 ms
64 bytes from 172.17.0.2: icmp_seq=9 ttl=64 time=0.040 ms
64 bytes from 172.17.0.2: icmp_seq=10 ttl=64 time=0.103 ms
64 bytes from 172.17.0.2: icmp_seq=11 ttl=64 time=0.102 ms
64 bytes from 172.17.0.2: icmp_seq=12 ttl=64 time=0.068 ms
64 bytes from 172.17.0.2: icmp_seq=13 ttl=64 time=0.102 ms
64 bytes from 172.17.0.2: icmp_seq=14 ttl=64 time=0.099 ms
```

```
D:\UserFolder\Documents\20-21-2ndSem\CoE 197S\Repositories\docker-training>docker run --rm -d -e PING_TARGET=dummy --name pinger royeap197s/ping:1.0
docker: Error response from daemon: Conflict. The container name "/pinger" is already in use by container "fbf1906514e245f3e27cd40f086c925263700668b569673e079272e9b8a3ce1e"
. You have to remove (or rename) that container to be able to reuse that name.
See 'docker run --help'.

D:\UserFolder\Documents\20-21-2ndSem\CoE 197S\Repositories\docker-training>docker rm pinger
Error response from daemon: You cannot remove a running container fbf1906514e245f3e27cd40f086c925263700668b569673e079272e9b8a3ce1e. Stop the container before attempting rem
oval or force remove

D:\UserFolder\Documents\20-21-2ndSem\CoE 197S\Repositories\docker-training>docker kill pinger
pinger
```

*removed pinger first to reuse

```
D:\UserFolder\Documents\20-21-2ndSem\CoE 197S\Repositories\docker-training>docker run --rm -d -e PING_TARGET=dummy --name pinger royeap197s/ping:1.0
2a99b5247986b4fe83bb305476a5f83f48a16ed3c873e2ccfa685b118d1ef1b0

D:\UserFolder\Documents\20-21-2ndSem\CoE 197S\Repositories\docker-training>docker ps
CONTAINER ID   IMAGE                COMMAND                 CREATED          STATUS          PORTS       NAMES
b68884703738   royeap197s/ping:1.0  "sh -c 'ping $PING_T…"  4 minutes ago    Up 4 minutes                dummy

D:\UserFolder\Documents\20-21-2ndSem\CoE 197S\Repositories\docker-training>docker stop dummy
dummy
```

PINEDA ME08 Activity 06

```
D:\UserFolder\Documents\20-21-2ndSem\CoE 197S\Repositories\docker-training>docker network create skynet
8e436ba69357d82745b3af3bfc3935c379aea04fa5739d137eec2382d5e570ee

D:\UserFolder\Documents\20-21-2ndSem\CoE 197S\Repositories\docker-training>docker network ls
NETWORK ID     NAME       DRIVER    SCOPE
6bd24fbb997a   bridge     bridge    local
a1668d74be91   host       host      local
6fc6da2d12ef   none       null      local
8e436ba69357   skynet     bridge    local

D:\UserFolder\Documents\20-21-2ndSem\CoE 197S\Repositories\docker-training>docker network inspect skynet
[
    {
        "Name": "skynet",
        "Id": "8e436ba69357d82745b3af3bfc3935c379aea04fa5739d137eec2382d5e570ee",
        "Created": "2021-06-12T18:10:08.3825256Z",
        "Scope": "local",
        "Driver": "bridge",
        "EnableIPv6": false,
        "IPAM": {
            "Driver": "default",
            "Options": {},
            "Config": [
                {
                    "Subnet": "172.19.0.0/16",
                    "Gateway": "172.19.0.1"
                }
            ]
        },
        "Internal": false,
        "Attachable": false,
        "Ingress": false,
        "ConfigFrom": {
            "Network": ""
        },
        "ConfigOnly": false,
        "Containers": {},
        "Options": {},
        "Labels": {}
    }
]

D:\UserFolder\Documents\20-21-2ndSem\CoE 197S\Repositories\docker-training>docker run --rm -d -e PING_TARGET=dummy --name pinger royeap197s/ping:1.0
b5c6d7c495dafb5c99995dbb2c98c3c6ea67287dbc5d9aa0a3bfbfe5fa6fd981
```

```
D:\UserFolder\Documents\20-21-2ndSem\CoE 197S\Repositories\docker-training>docker run --rm -d --network skynet --name dummy royeap197s/ping:1.0
80207cbb234354935fdcaa23d766afc44ba2722eb24d8e5679fc97561b449b65

D:\UserFolder\Documents\20-21-2ndSem\CoE 197S\Repositories\docker-training>docker run --rm -d --network skynet -e PING_TARGET=dummy --name pinger royeap197s/ping:1.0
be8a8b11bf87318b609d11c711266d6cfb6f72f94ae3e427a89d9ed109c06e9f

D:\UserFolder\Documents\20-21-2ndSem\CoE 197S\Repositories\docker-training>docker logs pinger
PING dummy (172.19.0.2) 56(84) bytes of data.
64 bytes from dummy.skynet (172.19.0.2): icmp_seq=1 ttl=64 time=0.108 ms
64 bytes from dummy.skynet (172.19.0.2): icmp_seq=2 ttl=64 time=0.117 ms
64 bytes from dummy.skynet (172.19.0.2): icmp_seq=3 ttl=64 time=0.109 ms
64 bytes from dummy.skynet (172.19.0.2): icmp_seq=4 ttl=64 time=0.111 ms
64 bytes from dummy.skynet (172.19.0.2): icmp_seq=5 ttl=64 time=0.112 ms
64 bytes from dummy.skynet (172.19.0.2): icmp_seq=6 ttl=64 time=0.111 ms
64 bytes from dummy.skynet (172.19.0.2): icmp_seq=7 ttl=64 time=0.110 ms
64 bytes from dummy.skynet (172.19.0.2): icmp_seq=8 ttl=64 time=0.071 ms

D:\UserFolder\Documents\20-21-2ndSem\CoE 197S\Repositories\docker-training>docker stop pinger
pinger

D:\UserFolder\Documents\20-21-2ndSem\CoE 197S\Repositories\docker-training>docker stop dummy
dummy
```

```
D:\UserFolder\Documents\20-21-2ndSem\CoE 197S\Repositories\docker-training>docker run --rm -d --name widgetdb --network skynet -p 5432 postgres
Unable to find image 'postgres:latest' locally
latest: Pulling from library/postgres
69692152171a: Already exists
a31b993d5cc6: Pull complete
f65921886500: Pull complete
b9c1a94e4ca8: Pull complete
435dd99ceb68: Pull complete
d3ee8e88c67c: Pull complete
84b08674f942: Pull complete
7d358e850d3e: Pull complete
c7dcc5801f3b: Pull complete
f6eeca01c79c: Pull complete
392faa2e3ddd: Pull complete
3e77feaf6319: Pull complete
9b42e6c9c7ba: Pull complete
5fce2660d75c: Pull complete
Digest: sha256:117c3ea384ce21421541515edfb11f2997b2c853d4fdd58a455b77664c1adc20
Status: Downloaded newer image for postgres:latest
e9722150ee9a52b477a502532d9c1051a544e733f9e57fe9ff53a67fd50cb470
```

```
D:\UserFolder\Documents\20-21-2ndSem\CoE 197S\Repositories\docker-training>docker run --rm -d --name gadgetdb -e POSTGRES_PASSWORD=password --network skynet -p 5432 postgres
792aaa938b005ee98f0684d5241ea83d6ab2ee2a3d6bbda028c6c8c0d966d69b

D:\UserFolder\Documents\20-21-2ndSem\CoE 197S\Repositories\docker-training>docker ps
CONTAINER ID   IMAGE      COMMAND               CREATED          STATUS          PORTS                     NAMES
792aaa938b00   postgres   "docker-entrypoint.s…"  13 seconds ago   Up 12 seconds   0.0.0.0:65472->5432/tcp   gadgetdb

D:\UserFolder\Documents\20-21-2ndSem\CoE 197S\Repositories\docker-training>docker run --rm -d --name widgetdb -e POSTGRES_PASSWORD=password --network skynet -p 5432 postgres
3afbca2243b3b6f45609db6aa10ddf934b76187f5fc3c3ced926165fd4fa93da

D:\UserFolder\Documents\20-21-2ndSem\CoE 197S\Repositories\docker-training>docker ps
CONTAINER ID   IMAGE      COMMAND               CREATED         STATUS          PORTS                     NAMES
3afbca2243b3   postgres   "docker-entrypoint.s…"  6 seconds ago   Up 5 seconds    0.0.0.0:61203->5432/tcp   widgetdb
792aaa938b00   postgres   "docker-entrypoint.s…"  37 seconds ago  Up 35 seconds   0.0.0.0:65472->5432/tcp   gadgetdb
```

```
D:\UserFolder\Documents\20-21-2ndSem\CoE 197S\Repositories\docker-training>docker exec -it widgetdb /bin/bash
root@3afbca2243b3:/# psql -U postgres
psql (13.3 (Debian 13.3-1.pgdg100+1))
Type "help" for help.

postgres=# \q
root@3afbca2243b3:/# psql -U postgres -h gadgetdb
Password for user postgres:
psql (13.3 (Debian 13.3-1.pgdg100+1))
Type "help" for help.

postgres=# \q
root@3afbca2243b3:/# exit
exit
```

```
D:\UserFolder\Documents\20-21-2ndSem\CoE 197S\Repositories\docker-training>docker run --rm -d --name widgetdb -e POSTGRES_PASSWORD=password --network skynet -p 5432:5342 po
stgres
21463014db9f6b7a01740717d81c8b28f0bd867ced3006869e1a4fb86f0396f6

D:\UserFolder\Documents\20-21-2ndSem\CoE 197S\Repositories\docker-training>psql -U postgres -h localhost
'psql' is not recognized as an internal or external command,
operable program or batch file.

D:\UserFolder\Documents\20-21-2ndSem\CoE 197S\Repositories\docker-training>docker exec -it widgetdb /bin/bash
root@21463014db9f:/# psql -U postgres -h localhost
psql (13.3 (Debian 13.3-1.pgdg100+1))
Type "help" for help.

postgres=# \q
root@21463014db9f:/# exit
exit

D:\UserFolder\Documents\20-21-2ndSem\CoE 197S\Repositories\docker-training>dockerstop widgetdb
'dockerstop' is not recognized as an internal or external command,
operable program or batch file.

D:\UserFolder\Documents\20-21-2ndSem\CoE 197S\Repositories\docker-training>docker stop widgetdb
widgetdb
```